

**In the Claims:**

1. (Currently Amended) Laser microdissection system with a microscope (1) for observing a biological material (43) located on an object carrier (3), with a laser device (4) for excising a biological object from the biological material (43) by means of laser radiation, and with at least one holder (20) that is designed for use in the laser microdissection system in such a way that it can hold a receptacle device (30) provided for receiving the biological object excised from the biological material, for operation with the laser microdissection system,  
~~characterised in that~~  
wherein  
the at least one holder (20) has a coding (23) that identifies the type of receptacle device (30),  
identification means (32, 33) are provided for identifying the receptacle device (30) held in each case by the holder (20) by evaluating the coding (23) of the holder (20), and  
control means (7) are provided and are designed in such a way that, depending on the receptacle device (30) identified in each case, they provide selection functions specific to the receptacle device for the allocation of individual biological objects to be excised from the biological material to individual receptacle containers (31) of the receptacle device (30) identified in each case.
2. (Currently Amended) Laser microdissection system according to claim 1, ~~characterised in that~~  
wherein the identification means (32, 33) are designed for the optical scanning of the coding (23) of the holder (20).
3. (Currently Amended) Laser microdissection system according to claim 1 ~~or claim 2,~~  
~~characterised in that~~ 1, wherein the identification means (32, 33) are designed for the inductive scanning of the coding (23) of the holder (20).

4. (Currently Amended) Laser microdissection system according to ~~one of claims 1 to 3,~~  
~~characterised in that~~claim 1, wherein the identification means (32, 33) are designed for  
the capacitative scanning of the coding (23) of the holder (20).
5. (Currently Amended) Laser microdissection system according to ~~one of claims 1 to 4,~~  
~~characterised in that~~claim 1, wherein the control means (7) are designed in such a way  
that, depending on the identified receptacle device (30), they form an image of the  
identified receptacle device (30) on a reproduction device (3).
6. (Currently Amended) Laser microdissection system according to ~~one of claims 1 to 5,~~  
~~characterised in that~~claim 1, wherein the control means (7) are designed in such a way  
that, depending on the identified receptacle device (30), they provide selection functions  
specific to the receptacle device for the automatic manipulation of the receptacle device  
(30).
7. (Currently Amended) Laser microdissection system according to ~~one of claims 1 to 6,~~  
~~characterised in that~~claim 1, wherein the control means (7) are designed in such a way  
that, depending on the identified receptacle device (30), they manipulate in a manner  
specific to the receptacle device an adjustment device (2) of the microscope system to  
which the holder (20) is to be coupled, in order to position the receptacle device (30) in  
the microscope system with the aid of the adjustment device (2).
8. (Currently Amended) Laser microdissection system according to ~~one of claims 1 to 7,~~  
~~characterised in that~~claim 1, wherein image recording means for recording an image of  
the receptacle device (30) are provided, and whereby the control means (7) are designed  
in such a way that, depending on the identified receptacle device (30), they manipulate  
the image recording means in a manner specific to the receptacle device in such a way  
that these automatically remove the receptacle device (30) in order to record an image of  
the receptacle device (30).

9. (Currently Amended) Laser microdissection system according to claim 8, ~~characterised in that~~wherein the control means (7) are designed in such a way that after a dissection procedure they automatically manipulate the image recording means in order to record the image of the receptacle device (30) at least in a region of those receptacle containers (31) in which the biological objects are dissected.
10. (Currently Amended) Laser microdissection system according to ~~one of claims 1 to 9,~~  
~~characterised in that~~claim 1, wherein the control means (7) are designed in such a way that, depending on the identified receptacle device (30), they prepare in a manner specific to the receptacle device a dissection protocol for a dissection work sequence carried out with respect to the receptacle device (30).
11. (Currently Amended) Laser microdissection system according to ~~one of claims 1 to 10,~~  
~~characterised in that~~claim 1, wherein the holder (20) comprises a frame (21) for holding the receptacle device (30).
12. (Currently Amended) Laser microdissection system according to ~~one of claims 1 to 11,~~  
~~characterised in that~~claim 1, wherein the coding (23) is an optically scannable coding.
13. (Currently Amended) Laser microdissection system according to claim 12, ~~characterised in that~~wherein the coding (23) comprises comb-like projections that extend from the holder (20), whereby the receptacle device (30) is identified by the arrangement of the projections.
14. (Currently Amended) Laser microdissection system according to claim ~~12 or claim 13,~~  
~~characterised in that~~12, wherein the coding (23) comprises a barcode.
15. (Currently Amended) Laser microdissection system according to ~~one of the preceding~~  
~~claims, characterised in that~~claim 1, wherein the coding (23) comprises an inductive coding.

16. (Currently Amended) Laser microdissection system according to ~~one of the preceding claims, characterised in that~~claim 1, wherein the coding ~~(23)~~ comprises a capacitative coding.
17. (Currently Amended) Laser microdissection system according to claim 15 ~~or claim 16, characterised in that~~15, wherein the coding ~~(23)~~ comprises a transponder.
18. (Currently Amended) Laser microdissection system according to ~~one of the preceding claims, characterised in that~~claim 1, wherein the holder ~~(20)~~ is designed to hold a receptacle device ~~(30)~~ that is selected from a group comprising a cap, a tube, a microtitre plate and arrangements thereof.